

DETAILED ACTION

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr Dexter T. Chang on March 19, 2009.

The application has been amended as followed:

The specification recites of, "Fig.3A shows a constellation" in Line 32 of Page 4 and needs to be corrected to "Fig.3B shows a constellation".

In claim 7, the limitation "a separating unit that **spreads** the" in line 3 of Page 4 is corrected to "a separating unit that **separates** the".

Allowable Subject Matter

Claims 3 – 4 and 6 - 10 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Re independent claims 3 and 7, the prior art of record does not disclose of an amplitude control unit that increases an amplitude component of the first received signal by a predetermined factor when the first received signal is on the I axis or on the Q axis, and that does not increase the amplitude component of the second received signal by the predetermined factor when the second received signal is neither on the I axis nor on the Q axis.

Re independent claims 8 and 10, the prior art of record does not disclose of an amplitude control unit that decreases an amplitude component of the first output signal by a predetermined factor when the first output signal is output on the I axis or on the Q axis, and that does not decrease the amplitude component of the second output signal by the predetermined factor when the second output signal is output neither on the I axis nor on the Q axis.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARISTOCRATIS FOTAKIS whose telephone number is (571)270-1206. The examiner can normally be reached on Monday - Thursday 6:30 - 4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aristocratis Fotakis/

Examiner, Art Unit 2611

/Chieh M Fan/

Supervisory Patent Examiner, Art Unit 2611